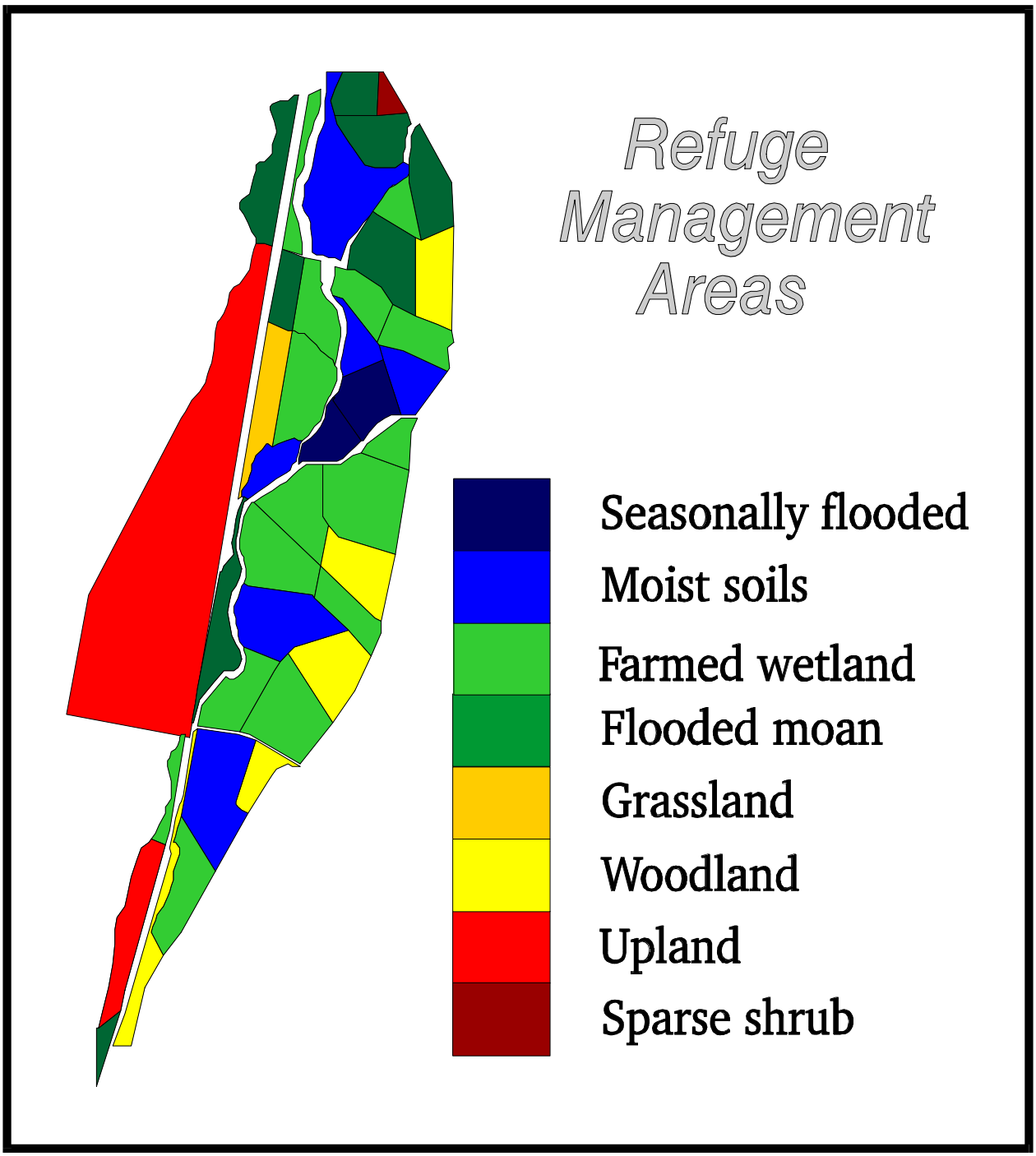
# QuickMAP

## Workbook

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National Ecology Research Center
U. S. Fish and Wildlife Service

About QuickMAP

Map Concepts

Project Requirements

Computerizing Maps

Using QuickMAP – DRAW

Using QuickMAP – ASSEMBLY

Using QuickMAP – DISPLAY

Using QuickMAP – Review

Using QuickMAP –
Access to Other Applications

Using QuickMAP – Utilities
and Maintenance

Using QuickMAP – Geographic
Controls and Data Transformation

Using QuickMAP –
Mapfile Registration

Using QuickMAP – DLG Information

Operational Use and
Additional Considerations

Advanced Topics

# QUICKMAP COURSE AGENDA

**Topic** **Time**

**DAY 1**

Preliminaries 8:00 a.m.
- a. introductions
- b. course objectives
- c. evaluation form

I. About QuickMAP 8:30 a.m.
- a. desktop mapping and decision support
- b. graphical user interface
- c. software design and features
- d. **Exercise** - Navigating through QuickMAP with HELP
- e. QuickMAP applications (Poster) and products (Slideshow)

**<Break>** **10:00 a.m**.

II. Map Concepts 10:15 a.m.
- a. map definitions and characteristics
- e. **Exercise** - Mapsheet calculations

III. Project Requirements 11:00 a.m.
- a. data needs, acquisition, and assessment
- b. theme development and database design
- c. software limits and data exchange considerations

**<Lunch>** **12:00 noon**

- d. **Exercise** - Data assessment and theme development 1:00 p.m.

IV. Computerizing Maps 1:45 p.m.
- a. types of maps and their digital representation
- b. coordinate system, arc record and topology tables
- c. QuickMAP naming conventions, and List features
- d. data organization in QuickMAP and DOS

**<Break>** **2:45 p.m.**

- e. **Exercise** - Map preparation for digitizing 3:00 p.m.

V. Using QuickMAP - Draw 4:00 p.m.
- a. introduction to draw
- b. **Exercise** - Editing an arc

**<Adjourn>** **5:00 p.m.**

| **Topic** | **Time** |
|---|---|
| **DAY 2** | |
| Using QuickMAP - Draw (continued)<br>c. **Exercise** - Tablet registration and digitizing arcs | 8:00 a.m. |
| **<Break>** | **10:00 a.m**. |
| d. **Exercise** - Advanced digitizing<br>e. Review - data structures and organization | 10:15 a.m. |
| **<Lunch>** | **12:00 noon** |
| VI. Using QuickMAP - Assembly<br>a. introduction to assembly<br>b. **Exercise** - Map assembly of geographic features<br>c. **Exercise** - Advanced assembly<br>d. Review - data structures and organization | 1:00 p.m. |
| **<Break>** | **3:00 p.m.** |
| VII. Using QuickMAP - Display<br>a. introduction to display<br>b. **Exercise** - Composing maps and making calculations | 3:15 p.m. |
| **<Adjourn>** | **5:00 p.m.** |
| **DAY 3** | |
| VIII. Using QuickMAP - Review<br>a. review of sections 1-7<br>b. **Exercise** - Review | 8:00 a.m. |
| **<Break>** | **9:45 a.m.** |
| IX. Using QuickMAP - Access to other applications<br>a. shell to DOS, GEM, and OUTPUT<br>b. Exercise - Output and metafiles<br>c. Demonstration - Artline and WordPerfect | 10:00 a.m. |
| **<Lunch>** | **12:00 noon** |

**Topic** **Time**

**DAY 3 (continued)**

X. Using QuickMAP - Utilities and maintenance 1:00 p.m.
   a. shell for utilities
   b. more on data structures and file formats
   c. **Exercise** - Examining files and maintenance

XI. Using QuickMAP - Data transformation and geographic controls 1:45 p.m.
   a. Projections used in QuickMAP
   b. Control points and latitude/longitude grids
   c. **Exercise** - Importing data and comparing projections

**<Break>** **3:00 p.m.**

XII. Using QuickMAP - Mapfile registration 3:15 p.m.
   a. Handling other projections and arbitrary coordinates
   b. **Exercise** - Establishing a geo-referenced mapfile

XIII. Using QuickMAP - DLG information 3:45 p.m.
   a. Maintaining attributes through major and minor codes
   b. Handling complex maps and building a project mapfile
   c. **Exercise** - DLG import of New Mexico county data

**<Adjourn>** **5:00 p.m.**

**DAY 4**

Utilities Wrap-up
   a. DLG **Exercise**, continued 8:00 a.m.
   b. Review of sections 9-13

XIV. Operational Use and additional considerations 9:45 a.m.
   a. standard operating procedures
   b. record keeping
   c. maintenance utilities
   d. software support

**<Break>** **10:15 a.m.**

| **Topic** | **Time** |
|---|---|
| **DAY 4** (continued) | |
| XV. Advanced topics<br>a. global positioning systems<br>b. integration with database management software<br>c. Demonstration - Some dBASE applications<br>d. distributed use with a geographic information system<br>e. Demonstration - Data exchange with ARC/INFO | 10:30 a.m. |
| **<Adjourn>** | **12:00 noon** |
| Assistance with Field Appllications | 1:00-3:00 p.m. |

# COURSE OBJECTIVES

**Introduce students to concepts, terminology, and procedures of computer mapping.**

**Instruct you to use QuickMAP menus, commands, and features.**

**Develop skills during 'hands on' exercises.**

**Build confidence to use QuickMAP on your special projects back home.**

# Evaluation Form

This evaluation form is intended to provide information related to the QuickMAP Software course. Please fill out the form before leaving. Your participation will help to improve the effectiveness and quality of subsequent courses.

User Background

1. What organization are you affiliated with? _____

   What is your current job title? _____

2. How many years have you worked in the field of natural resources? _____

3. What was your last degree received? B.S. or M.S. or Ph.D.

   Major _____ Date of graduation_____

4. How many training courses do you attend per year on average? _____

5. Please classify your familiarity with computers:

   ___beginner

   ___intermediate

   ___expert

6. Please classify your familiarity with computerized mapping software packages (other than QuickMAP) prior to attending this course:

   ___have never used any mapping software before

   ___have used mapping software a little (less than 3 times)

   ___have used mapping software extensively (3 or more times)

7. Please classify your familiarity with the QuickMAP software prior to attending this course:

   ___have never used QuickMAP software before

   ___have used QuickMAP software a little (less than 3 times)

   ___have used QuickMAP software extensively (3 or more times)

Course Objectives

At the end of this course:

1. Is your understanding of the basic concepts of computerized mapping:

   ____ Excellent ____ Adequate ____ Poor

2. Do you understand the similiarities and differences between QuickMAP and other mapping systems (in general):

____ Yes ____ No

3. Do you feel you would be able to exchange data between QuickMAP and other software packages?

____ Yes ____ No ____ Not sure

4. Are you comfortable with the use of basic QuickMAP menus and commands?

____ Yes ____ No

5. How well do you feel you could use the functions and capabilities of QuickMAP on your own?

____ Very Well ____ Adequate ____ Poorly

Course Instruction

Please mark your evaluation on a scale of

5 = Excellent, 4 - Good, 3 = Average, 2 = Poor, 1 = Bad

| | | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|
| 1. | Instructors' knowledge of subject matter | ___ | ___ | ___ | ___ | ___ |
| 2. | Quality/effectiveness of presentations | ___ | ___ | ___ | ___ | ___ |
| 3. | Opportunity for questions and discussion | ___ | ___ | ___ | ___ | ___ |
| 4. | Instructors' attitudes toward subject | ___ | ___ | ___ | ___ | ___ |
| 5. | Instructors' attitudes toward participants | ___ | ___ | ___ | ___ | ___ |

Overall

1. Was the course organization:

____ Excellent ____ Adequate ____ Poor

2. Was the course:

____ Too long ____ Too short ____ About right length

3. Were the course materials (e.g., overheads, exercises):

____ Excellent ____ Adequate ____ Poor

4. Overall quality of the course was:

____ Excellent ____ Adequate ____ Poor

5. Would you recommend this course to others?

____ Yes ____ No

If no, why not? _____

_____

6. What additional topics or exercises should be included in this course?

_____

_____

Additional comments _____

_____

_____

_____

Thank you very much for completing this evaluation form. Your comments are greatly appreciated.